

BLOCK CODING ACROSS DIGITAL CABLE AND SATELLITE COMMUNICATION CHANNELS

ABSTRACT OF THE DISCLOSURE

Error correction coding across multiple channels is provided in multi-channel transmission systems. Specifically, redundancy is provided by selecting a portion of original data from each of a plurality of original channels, performing at least one encoding operation using the portions of original data to produce at least one portion of redundancy data, including the portion of redundancy data in at least one redundancy channel, and transmitting the redundancy channel along with the original channels. Error correction is achieved by receiving at least one redundancy channel and a plurality of original channels, selecting a portion of redundancy data from the redundancy channel, selecting a portion of original data from each of the original channels, and performing at least one decoding operation using the portion of redundancy data and the portions of original data to correct at least one error in the portions of original data.

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